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<u>Amendments to the Claims:</u> This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

- 1. (Currently Amended) Electromechanical valve control actuator for internal combustion engines, comprising an electromagnet (200, 300, 400, 500, 600, 700, 1006) with a magnet (202, 204, 206, 302, 402, 502, 702, 1001, 1002) and with a mobile magnetic plate (210, 310, 610, 710) moving into the vicinity of the electromagnet, the magnet (202, 204, 206, 302, 402, 502, 702, 1001, 1002) being located on a surface of the electromagnet (200, 300, 400, 500, 600, 700, 1006) opposite the plate (210, 310, 610, 710), characterized in thatwherein the electromagnet (200, 300, 400, 500, 600, 700, 1006) comprises a E-shaped magnetic circuit (208, 304, 404, 602, 704), and the magnet (202, 204, 206, 302, 402, 502, 702, 1001, 1002) being is located at the end of a branch of the E-shaped circuit.
- 2. (Currently Amended) Actuator in accordance with claim 1, <del>characterized in that</del><u>further comprising</u> a rod<u>that</u> is an integral part of the plate, the rod being located outside the E-shaped circuit.
- 3. (Currently Amended) Actuator in accordance with claim 1 or 2, <del>characterized in that</del><u>wherein</u> a plurality of branches of the <u>E-shaped magnetic</u> circuit are equipped with a <del>magnet</del><u>respective plurality of magnets</u>.
- 4. (Currently Amended) Actuator in accordance with claim  $\frac{1}{1}$ ,  $\frac{2}{1}$  or  $\frac{1}{1}$ ,  $\frac{1}{1}$  or  $\frac{1}{1}$  at least one said magnetof the magnets has a cross section  $\frac{1}{1}$  larger than [[the]] cross section  $\frac{1}{1}$  of the branch on which [[it]] the at least one magnet is located.
- 5. (Currently Amended) Actuator in accordance with one of the-claim[[s]] 1 through 4or 2, characterized in that wherein the plate (610) has a cross section  $(S_p)$  that is smaller than [[the]]a cross section  $(S_e)$  of the end branches (606) of the E-shaped support.
- 6. (Currently Amended) Actuator in accordance with one of the-claim[[s]] 1 through 5or 2, characterized in that wherein the cross section  $(S_e)$ -of an end branch of the support is smaller than half the cross section  $(2S_e)$ -of [[the]] $\underline{a}$  central branch of the support circuit.

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7. (Currently Amended) Actuator in accordance with one of the claim[[s]] 1 through 6or 2, characterized in that wherein [[the]]a cross section ( $S_e$ ) of [[the]]a junction between an end branch of the support-E-shaped circuit and [[the]]a central branch of the E-shaped support circuit is smaller than half the cross section ( $2S_e$ ) of the central branch of the support circuit.

8. (Currently Amended) Internal combustion engine comprising an electromechanical valve control actuator equipped with an electromagnet with a magnet and with a mobile magnetic plate coming into the vicinity of the electromagnet, characterized in that wherein the actuator is in accordance with one of the claim[[s]] 1 through 7 or 2.